

Contents

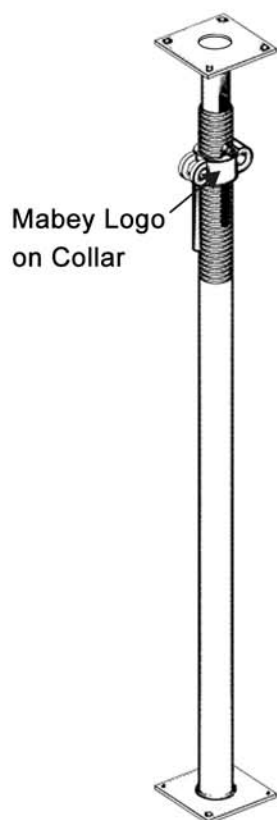
Page 1 : Identification of Components

Page 2 : Installation, Stacking and Handling

Page 3 : Usage and Safety Guidelines, References, General

1. Identification of Components

Mabey adjustable props can be identified from the details below in which lengths, weights and suggested working loads are given.

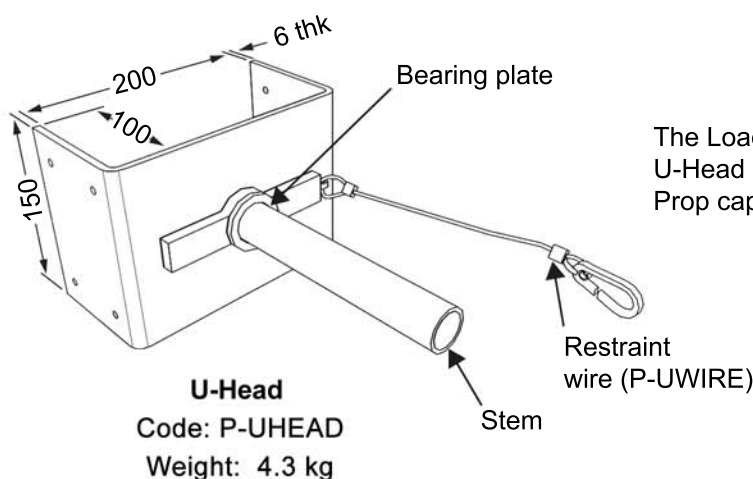


Prop No.	Dimensions		Weight (kg)
	Closed (m)	Extended (m)	
0	1.07	1.82	14.7
1	1.75	3.12	21.0
2	1.98	3.35	24.2
3	2.59	3.95	26.3
4	3.20	4.87	30.5

Safe Working Loads

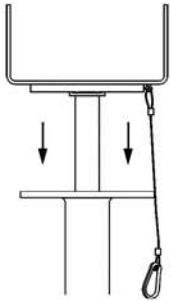
Prop No.	Extended Lengths (m)	S.W.L (kN) Loaded concentrically and upto 1° 30' out of plumb
0	1.82	35
1	2.00	35
1	3.12	17
2	2.00	35
2	3.35	15
3	3.00	20
3	3.95	11
4	3.50	19
4	4.87	10

Prop No.	Extended Lengths (m)	S.W.L (kN) Loaded upto 25mm eccentricity and 1° 30' out of plumb
0	1.82	17
1	2.75	17
1	3.12	14
2	2.75	17
2	3.35	12
3	3.00	15
3	3.95	9
4	4.00	10
4	4.87	6

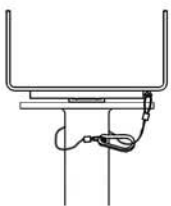


The Load carrying capacity of the U-Head is obtained by using the relevant Prop capacity (see tables above).

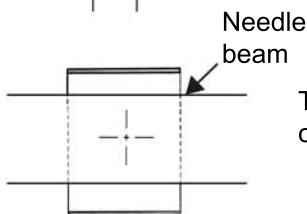
2. Installation



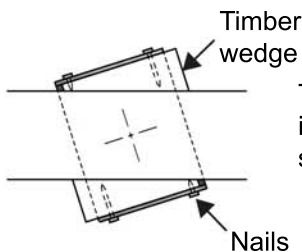
When using the the U-Head with the Mabey adjustable prop insert the stem of the U-Head into the central hole in the head plate of the Prop, making sure that the bearing plate of the U-Head is fully seated onto the prop head plate.



Immediately after installing the U-Head into the top of the adjustable prop secure the restraint wire around the prop tube. This will prevent the U-Head from falling out during use.



To ensure concentric loading of the props the needle beams should be placed centrally in the U-Head as shown.



Timber wedges can be driven from either side of the bearer to ensure the loading is over the centreline of the prop. These can be secured by nailing through the small holes in the sides of the U-Head.

3. Stacking and Handling

Mabey props should be carefully stacked either for transportation or for storage on site as shown.

Smaller quantities can be stored in post pallets.

U-Heads are to be separately stored and transported in bins.

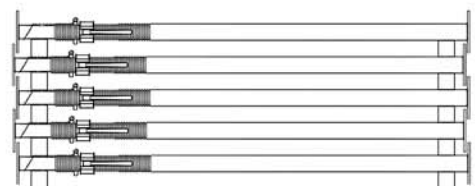
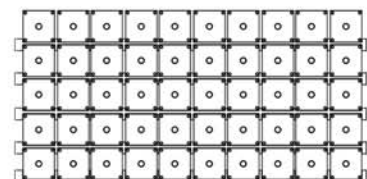
A suitable dry, level, firm area should be made available for storage on site.

Before attempting to sling check that the lifting equipment available on site is of sufficient capacity and suitable for the lifting operations.

Slings should always be carried out by a suitably experienced and competent personnel.

DO NOT place any other equipment on a stack of props.

During transportation ensure stacks of props are securely strapped to the lorry.



Stack of Props - Max size, 10 wide x 5 high on a timber dunnage

4. Usage and Safety Guidelines

Adjustable Steel Props are used for many different applications.

The following general guidelines are recommendations that should be borne in mind with props to ensure adequate safety is achieved. These guidelines are purely advisory and only state some of the many working practices or conditions that may arise using props. They should not be used to replace any existing safety procedures. It is recommended that all personnel using vertical props familiarise themselves with these guidelines.

- Ensure that all health and safety and regulations are adhered to.
- Inspect all equipment before using and never try to use any damaged / deteriorated props or U-Heads. Bent props should never be used.
- Any damage to the U-Head should be rectified and any parts replaced. The restraint wire should be in full working order prior to being used.
- Always ensure that props are fitted with the correct captive pins which are manufactured from high tensile material. Any use of reinforcing rods, tie rods or other materials may result in prop failure under load. Captive pins are always available to order from your supplier.
- Ensure the verticality of the prop during erection / before loading using a spirit level or similar.
- Be sure to inspect erected props before pouring begins and immediately after pouring has ceased.
- When using the U-Head always ensure that it is fully seated into the Prop head plate and the restraint wire is in place around the Prop tube.
- If in any doubt always consult your prop supplier and never take risks.
- Be sure to use the manufacturers recommended safe working loads relevant to the length of the props.
- To enable correct distribution of loads on props ensure that a solid footing is achieved and maintained.
- Ensure that all props are kept truly vertical and that they are loaded concentrically.
- To ensure stability, all single vertical props should have sufficient bracing in the longitudinal, transverse and diagonal directions.
- Any re-shoring procedures should be approved by a qualified engineer.
- Timber bearers should be designed taking into account the type, condition and allowable stresses of the timber and the supplier's recommended loadings.
- In order to provide a safe system of work for erection / installation / dismantling, it will be necessary to draw up a method statement.

It is advised that all such work should be carried out by suitably trained and experienced personnel.

5. References

- | | |
|--------------|--|
| Legislation | <ul style="list-style-type: none">- The Health and Safety at Work Act 1974- The Management of Health and Safety at Work Regs (MHSW) 1999- The Construction (Design and Management) Regulations 2007- The Provision and Use of Work Equipment Regulations (PUWER) 1998- Work at Height Regulations 2005 |
| HSE Guidance | <ul style="list-style-type: none">- HSG 150 Health and Safety in Construction- ISBN 0 7176 0755 0 A Guide to Managing Health and Safety in Construction |

6. General

Since our policy is one of continual improvement, components may vary in detail from the descriptions given in this publication.